

DM 950-30

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MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar to Form OSHA-20")

SECTION 1		NAME & PROD	j c τ			
Chemical Name:		\	MES.	Ca	talog Number:	
Postassium Cyanide				W COUNTER	X1435, PX144	0
Trade Name & Synonyms:	CA #1	51-50-8		Chemical Fa	ımily:	
Hydrocyanic Acid, Potassium S	Salt; C	anide of Po	stassi	um :	Inorganic Sal	t
Formula:			e e e e e e e e e e e e e e e e e e e	For	mula Weight:	
KCN				•	55.12	
SECTION 2		PHYSICAL DAT	Α			
Boiling Point, 760 mm Hg (°C)			Speci	fic Gravity (H ₂ () = 1) _{@16} ° _C	1.52
Melting Point (°C)	634		Solub	ility in H ₂ O, %	by wt. at 20°€	71.6
Vapor Pressure at 20°C			Appearance and Odor white crystals fain			
Vapor Density (air = 1)			almon	nd odor.		
Percent Volatiles by Volume			Evapo	ration Rate (Bu	tyl Acetate = 1	
SECTION 3	FIRE AND	EXPLOSION HA	ZARD D	ATA		
Flash Point (test method) non-flammab	ole	Flammable L	imits	Lel	b- Jule	25
Extinguishing Media Do not	use CO	o ₂ ! Cool co	ntaine	rs with wate	rE	
Special Hazards and Procedures	act with	acids forms	s highl	lv toxic fla	mmable H¢N b	A9. 4
Unusual Fire and Explosion Hazards						
SECTION 4		REACTIVITY DA	TA			
Stable Condition	ns to Avo	Consultance described in the domination of				
Unstable		s explosives			nitrite, ni	trogen
Materials to Avoid			1			
(_X) Water () Acids	() Bases	(*	C) Corrosives	(X)	Oxidizers
() Other (specify)						
Hazardous Decomposition Products	cyanid	es, cyanic a	cid			
SECTION 5 SPII	LL OR LEA	K PROCEDURES	AND DI	SPOSAL		The Assessment of the Control of the
Steps to be Taken in Case Material is Re	leased or	Spilled contai	ners .	ilation, ga Decontami solution.	ther solids : nate minor sp	in closed oills with
Waste Disposal Method Dispose in a	ccordan	, ,			ble regulation	ons.

SECTION 6 HEALTH HAZARD DATA

Threshold Limit Value TLV: 5 mg/m³

Highly poisonous by ingestion (≤ 250 mg, adult lethal dose). Absorbed by the body through the skin.

Effects of Overexposure Cyanide prevents cells of the body from using oxygen. Causes headache, dizziness, weakness, profuse ineffective breathing and nausea followed by weak, irregular heartbeat, unconsciousness, coma and death. On contact irritating and corrosive to tissue.

First Aid Procedures Eyes: Flush with copious amounts of water including under eye lids and seek immediate ophthaluric medical care!

Skin: Remove clothing and flush area with large amounts of water. Watch for toxic symptoms. Inhalation: Remove victim to fresh air, restore and support breathing. Ingestion: Give conscious victim 1 pint of 1% sodium thiosulfate soln., induce vomiting In all instances seek immediate medical attention!

SECTION 7. SPECIAL PROTECTION INFORMATION:

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection

Provide ventilation to meet TLV requirements. Canister type respirator suitable for KCN and HCN or self-contained breathing equipment. Avoid contact, wear gloves impervious to cyanide gas and appropriate protective clothing.

SECTION 8 SPECIAL HANDLING AND STORING PRECAUTIONS

Store in dry-cool, well ventilated area in air-tight containers, away from acids and oxidizers. Avoid inhalation of cyanide dust, mist or vapors and adsorption through skin.

SECTION 9

HAZARDOUS INGREDIENTS

(refer to section 3 through 8)

Cyanide

CTION 10 OTHER INFORMATION

Workers must exercise meticulous hygenic practices!

EMERGENCY	PHONE NUMBE	R (513) 631-0445

AUTHORIZED SIGNATURE __

17 19 OATE ISSUED: ______

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-		SEC	CTION I			
PRODUCT NAME	Potassium Cyanide		REC	EIVED	SIZE	250 g & 1 kg
CHEMICAL NAME	Potassium Cyanide		JÜL	3 1985	- [3]	OF FINE
FORMULA	KCN	•		HORN	目	JUL 25 1985
MANUFACTURER	SPECTRUM CHEMICAL M	4FG. C	ORP.		8-1	VUUPATION A
ADDRESS	14422 So. San Pedro	Stre	et, Gardena, C	A 90248	(I)	SAFETY
FOR INFORMATION	ON HEALTH HAZARDS CALL		Transp. Fire Sft Poisoning:		424-93 664-21	
FOR OTHER INFORI	MATION CALL (213) 516-		INFORMATION EFI			-25-80
	SECTION II HAZAF	RDOU	S INGREDIENT	oloobaan kanan kanan kanan ka		
PRINCIPAL HAZARDOUS COMPONENT(S)			%		TLV (Units)	
Not Applicab	le					
			·			
						•
	SECTIO	N III	PHYSICAL DAT	ΓΑ		
MELTING						
BOILING POINT (°F)			SPECIFIC GRAVITY		1.52	and the same of
VAPOR PRESSURE (n	nm Hg) Negligible		PERCENT VOLATILE BY VOLUME (%)		Negli	gible
VAPOR DENSITY (AIF	2.2 l=1)	•	EVAPORATION RAT	E	Not A	pplicable
SOLUBILITY IN WATE	Appreciable	- dec	composes			
APPEARANCE AND O	DOR White, amorp	phous,	deliquescent po	owder - o	dor of 1	oitter almond
	SECTION IV FIRE	AND	EXPLOSION HA	ZARD DA	ATA	
LASH POINT (Method	Used)		AMMABLE MITS None	Lel		Uel
XTINGUISHING MED	CO ₂ , dry chemica			J		1
PECIAL IRE-FIGHTING TDURES	Approved self-co	ntain	ed breathing app	paratus sh	ould be	worn
NUSUAL FIRE AND XPLOSION HAZARDS	None		•	•		

SECTION V HEALTH HAZARD DATA THRESHOLD LIMIT VALUE 3 Mg/M³ as CN - Skin (ACGIH, 1979) EFFECTS OF OVEREXPOSURE Inhalation: eyes, skin and ingestion: Causes irritation and is readily absorbed. Low concentrations may cause headache, dizziness, nausea and vomiting. High concentrations causes rapid heartbeat, rapid breathing then slow and irregular heart palpitations, unconsciousness, convulsions, paralysis, and death. EMERGENCY AND FIRST-AID PROCEDURES Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Eyes and Skin: Immediately flush areas of contact with plenty of water for at least 15 minutes and get prompt medical attention. Remove contaminated clothing and shoes immediately. Ingestion: Induce vomiting by giving 2 glasses of water and touch back of throat with finger or blunt object. Call a physician. "f able for any of the above exposures the patient should breath the content of anyl ni for 15 to 30 seconds of each minu UNSTABLE STABILITY CONDITIONS STABLE Proter and moist air INCOMPATIBILITY Strong oxidizers, acids, metall' (Materials to avoid) Thermal decomposition or burning may produce carbon **HAZARDOUS** monodixe and/or carbon dioxide, NOx **DECOMPOSITION PRODUCTS** HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID Will Not Occur May Occur SECTION VII SPILL OR LEAK PROCEDURES Wearing suitable protective clothing, sweep material onto STEPS TO BE TAKEN paper. Place in fiber carton and incinerate. Wash spill N CASE MATERIAL IS ELEASED OR SPILLED area well with soap and water. WASTE DISPOSAL METHOD Wearing suitable protective clothing, make up small packages in paper or other flammable materials and incinerate. Federal, State, and local laws take precedence. SECTION VIII SPECIAL PROTECTION INFORMATION RESPIRATORY PROTECTION An approved self-contained breathing apparatus, if necessary. (Specify Type) LOCAL EXHAUST Yes SPECIAL NO VENTILATION MECHANICAL (general) Yes OTHER No PROTECTIVE GLOVES EYE PROTECTION Yes Yes OTHER PROTECTIVE As necessary to prevent skin contact. EQUIPMENT

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Absorbs CO₂ and H₂O from air and decomposes slowly.

OTHER PRECAUTIONS

Wash thoroughly after handling. Note to physicians: If patient has not responded to amyl nitrite, inject intravenously 10 ml of a 3% solution of sodium nitrite at a rate not greater than 2.5 to 5.0 ml per minute. Follow directly with 50 ml of a 25% solution of sodium thiosulfate at the same rate by the same route. Keep patient under observation. If signs of poisoning persist or reappear, repeat nitrite and thiosulfate injections 1 hour later in one-half of the original dose.